Drawing Notes:

1. Quantities and locations of earth bars on the drawings are indicative only and shall be defined by the Contractor in the next design stage.
2. OFCI equipmen s tie-in points are indicative only, final coordination with the manufacturer shall be carried out by the Contractor at the next design stage.
3. All grid and material sizes are indicative. All final grid and material sizes are to be determined by the specialist earthing/lightning protection Contractor.
4. Drawing represents design intent only. The specialist lightning protection Contractor shall be responsible for the undertaking of the risk assessment, and the design, supply and installation of the lightning protection system to suit, to ensure compliance with EN 62305.
5. Down conductors to be bonded to soil mesh system and pile cap rebar as required. All connections are to be in line with local regulations.
6. Surge protection devices are to be installed for all equipment that is bonded to the LPS. Final type and location of surge protection devices are to be detailed by the specialist lightning protection Contractor.
7. Contractor is to allow for connections to structural steel work, primary and secondary, at roof level in line with the requirement of EN 62305.
8. Within all data rooms and IDF rooms, a 70mm² bare copper conductor will be grounded to the grounding collector closest to each row of rack cabinets via double-bolted lugs. This grounding conductor, laid within the cable trays, will pass over the rows of rack cabinets.
9. The Contractor is to ensure all items of equipment in the external MEP yard and external MEP gantry including but not limited to security fences, cam locks, generator containers, support steels, pipework etc. are connected to the earthing and grounding system.
10. All intersections of the grounding system must be made using specific copper junctions.
11. Contractor to ensure earth bars have sufficient capacity for additional 20% spare capacity.
12. All buried earth cables shall be bare copper.
13. Earth bars shall be manufactured from high conductivity copper complying with EN 13601.
14. The earthing system design and installation shall be in accordance with CEI EN 50522 Grounding of electrical systems with voltage higher than 1kV in AC: 2011-07, CEI 99-5 Guide for the execution of earthing systems of active and passive users connected to distribution systems with voltage higher than 1 kV in AC: July 2015, CEI 0-16 Reference technical rule for the connection of active and passive users to the HV and MV networks of electricity distribution companies and CEI 64-8 Electrical systems using a nominal voltage not exceeding 1.000V.
15. Telecommunications bonding networks shall be as per EN 50310.
16. Connections to steel and galvanized steel pipes, conduit or other round member items shall be made using listed bolted clamp with stainless steel securing hardware or other suitable listed means. In high humidity areas, the clamps shall be stainless steel or tin-plated listed to prevent galvanic corrosion.
17. Refer to Earthing schematics for Generator enclosure, buried fuel fill point earthing details.
18. Refer to Earthing schematic 69103 for (Telecom) Secondary Bonding Bars.
19. Refer to 60502 Electrical Details Sheet 2 for Earthing details.

Legends: Earthing

- CFT01 Lightning protection test pit
- CFT02 Equipment Ground BarrBonding Bar with Two Disconnecting Links
- CFT02 (Telecom) Primary Bonding Bar
- CFT04 (Telecom) Secondary Bonding Bar
- LR-C01 Down conductor 50x3mm or equivalent PVC covered (to be finalized by specialist)
- Structure Equipment Bonding
- Earthing conductor LSOH
- 50mm² Soil Mesh Conductor buried at minimum 50cm deep.
- 70mm² Ring Conductor
- 70mm² Insulated Copper/LSF cable installed in cable tray at high level
- 25 x 3mm Copper tape in ground

2500 0 2500 5000 7500 10000
SCALE: 1:250

PROTOCOLLO | IL RICHIEDENTE | IL PROGETTISTA

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OGGETTO / OBJECT:
Valutazione di Impatto Ambientale ai sensi del Titolo III del D.Lgs 152/2006

TITOLO / DESCRIPTION:
Impianti Elettrici e Speciali
Pianta Piano Terra
Impianto di Terra

DISEGNATO DA: DRAWN BY:	CONTROLLATO DA: CHECKED BY:	DATA / DATE:	SCALA / SCALE:	DATA REV.:
PS	RC	06/06/2025	1:250	--/--/----

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